ET420077659US

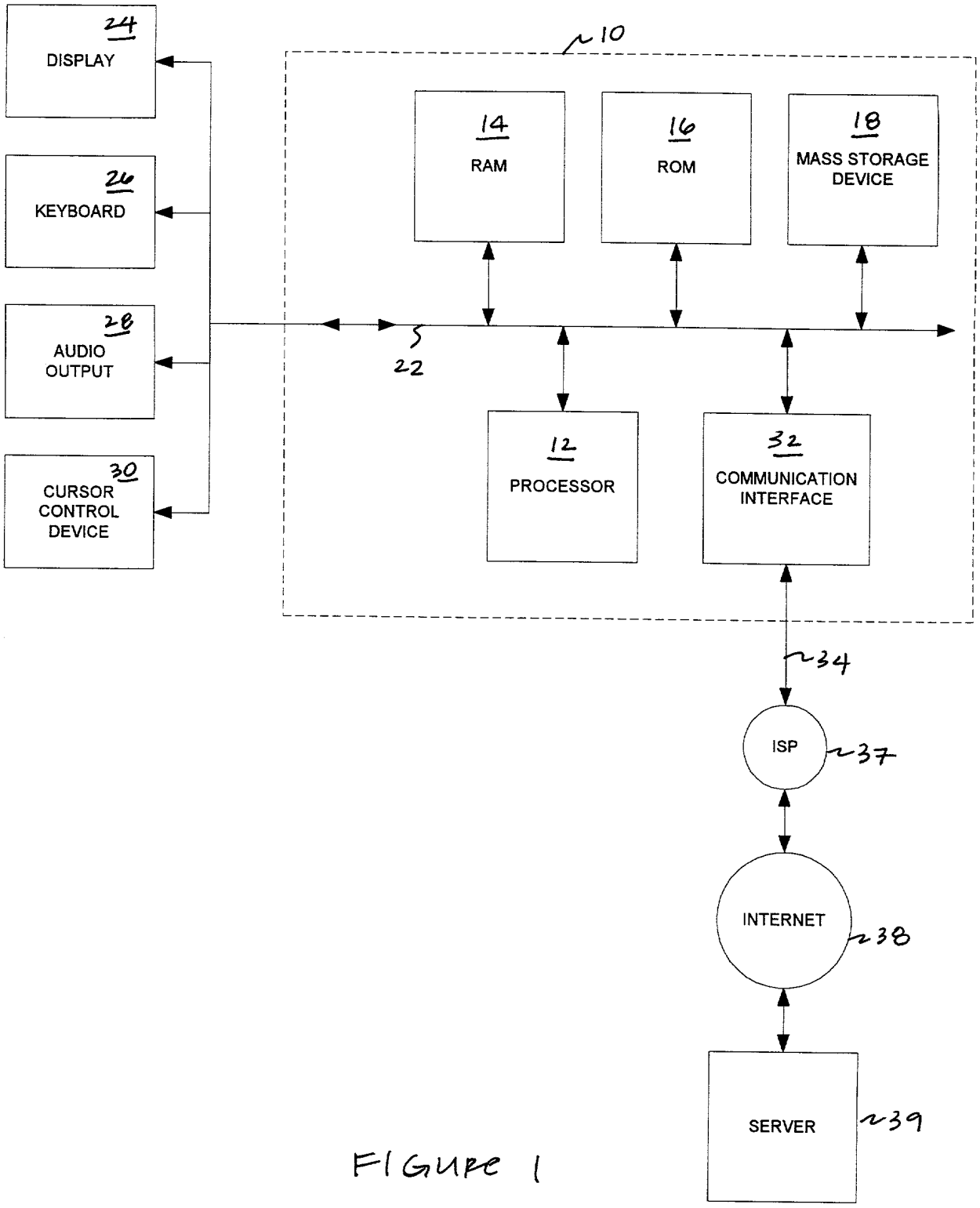

FIGURE 1

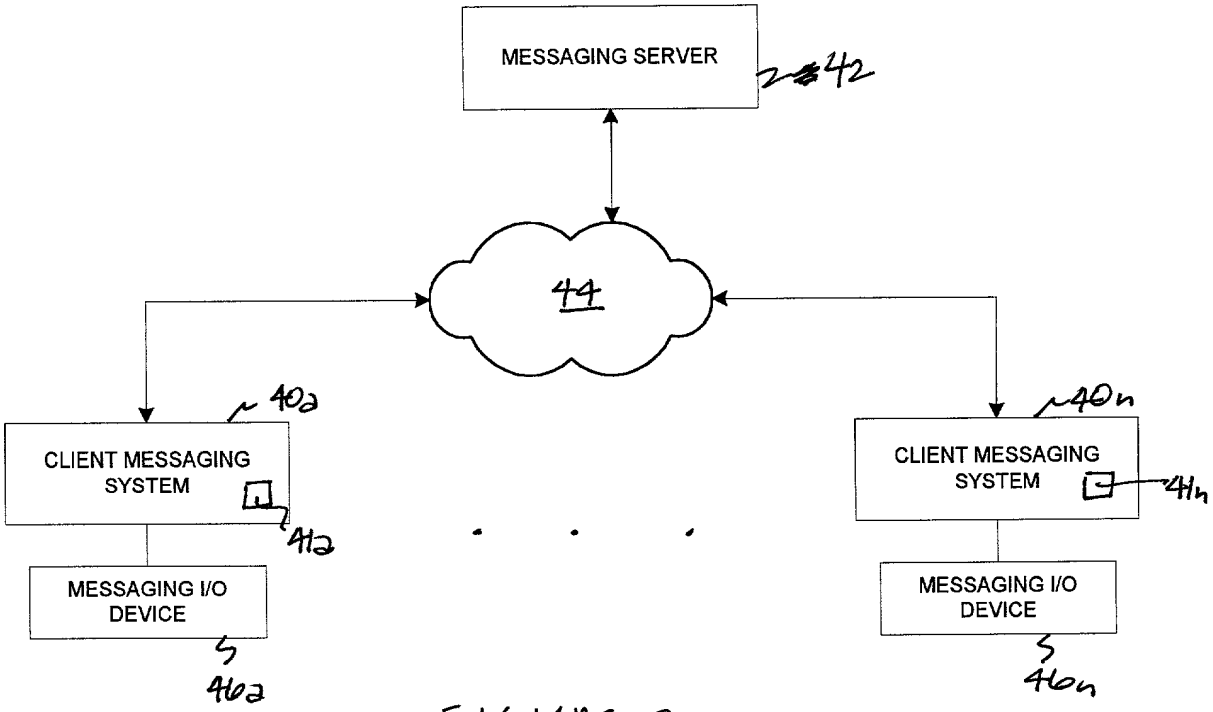

FIGURE 2

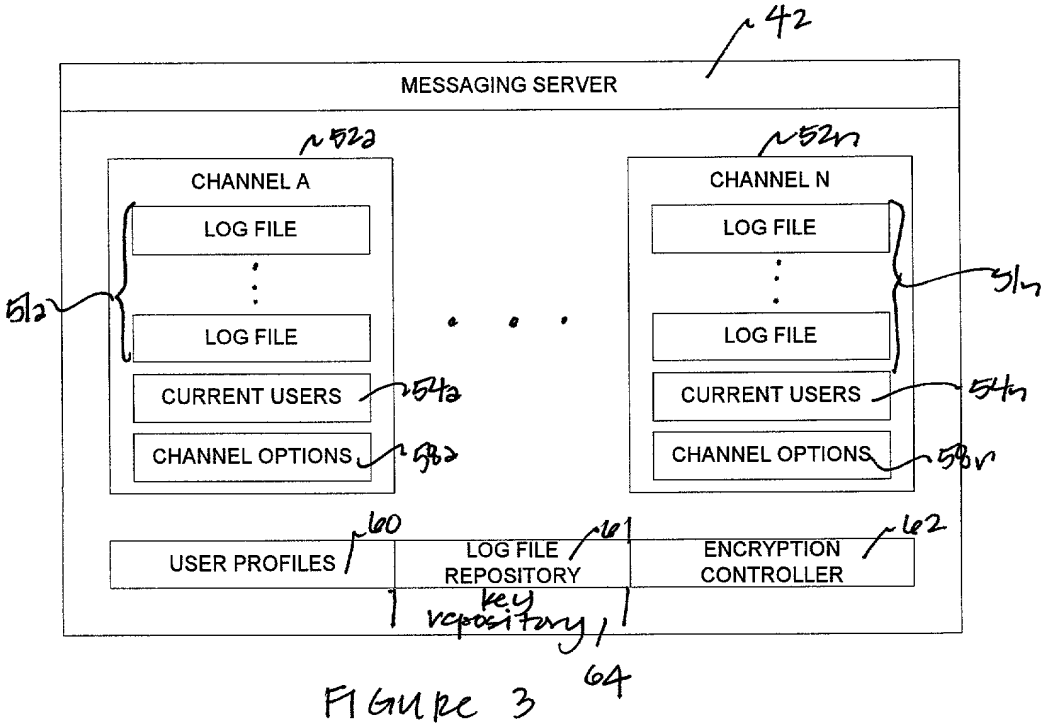

FIGURE 3

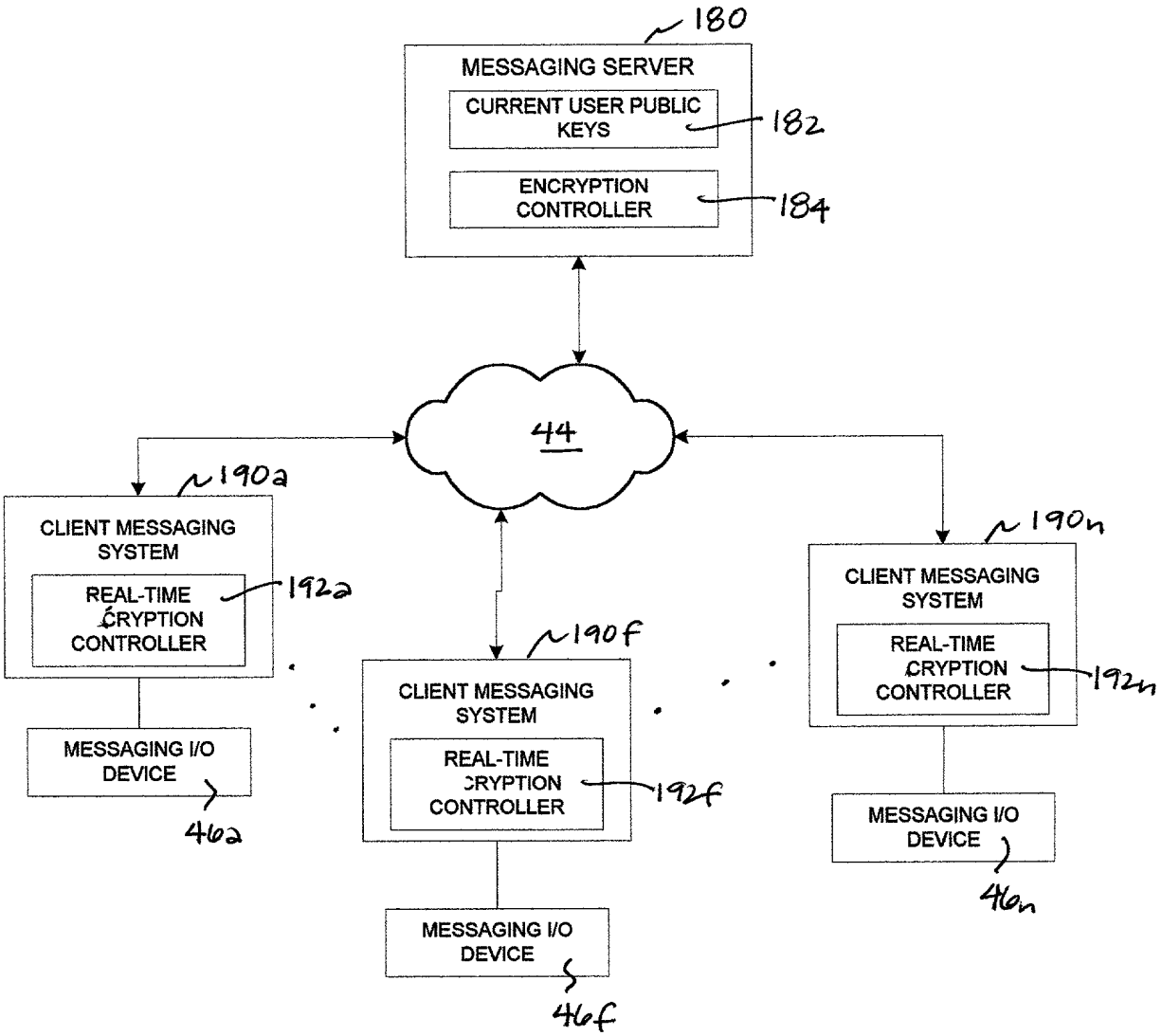
180
MESSAGING SERVER
CURRENT USER PUBLIC KEYS
182
ENCRYPTION CONTROLLER
184
44
190a
CLIENT MESSAGING SYSTEM
REAL-TIME CRYPTION CONTROLLER
192a
MESSAGING I/O DEVICE
46a
190f
CLIENT MESSAGING SYSTEM
REAL-TIME CRYPTION CONTROLLER
192f
MESSAGING I/O DEVICE
46f
190n
CLIENT MESSAGING SYSTEM
REAL-TIME CRYPTION CONTROLLER
192n
MESSAGING I/O DEVICE
46n

FIGURE 4

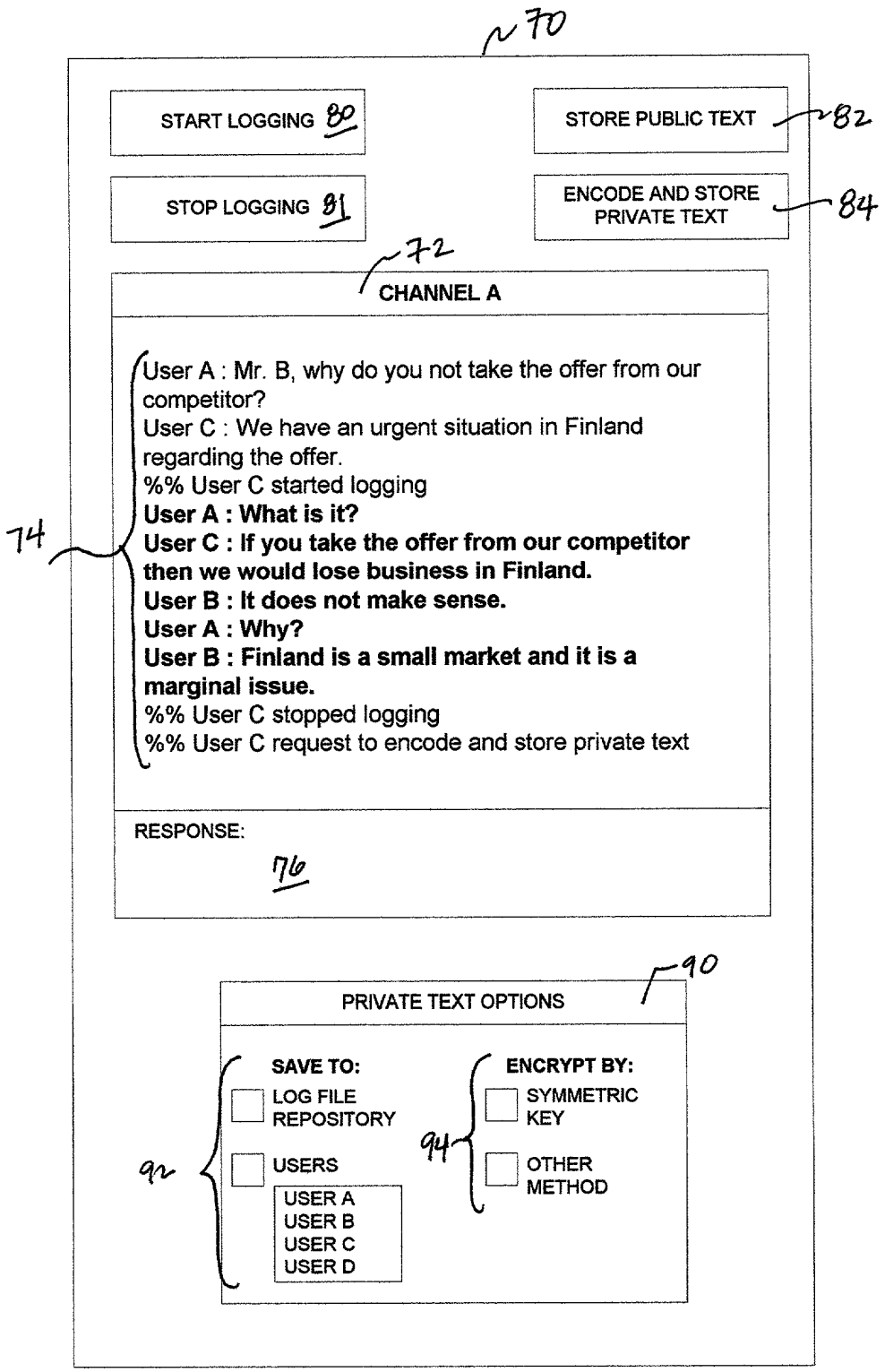
70
START LOGGING 80
STORE PUBLIC TEXT
82
STOP LOGGING 81
ENCODE AND STORE PRIVATE TEXT
84
72
CHANNEL A
User A : Mr. B, why do you not take the offer from our competitor?
User C : We have an urgent situation in Finland regarding the offer.
%% User C started logging
User A : What is it?
User C : If you take the offer from our competitor then we would lose business in Finland.
User B : It does not make sense.
User A : Why?
User B : Finland is a small market and it is a marginal issue.
%% User C stopped logging
%% User C request to encode and store private text
74
RESPONSE:
76
90
PRIVATE TEXT OPTIONS
SAVE TO:
LOG FILE REPOSITORY
USERS
USER A
USER B
USER C
USER D
92
ENCRYPT BY:
SYMMETRIC KEY
OTHER METHOD
94

FIGURE 5

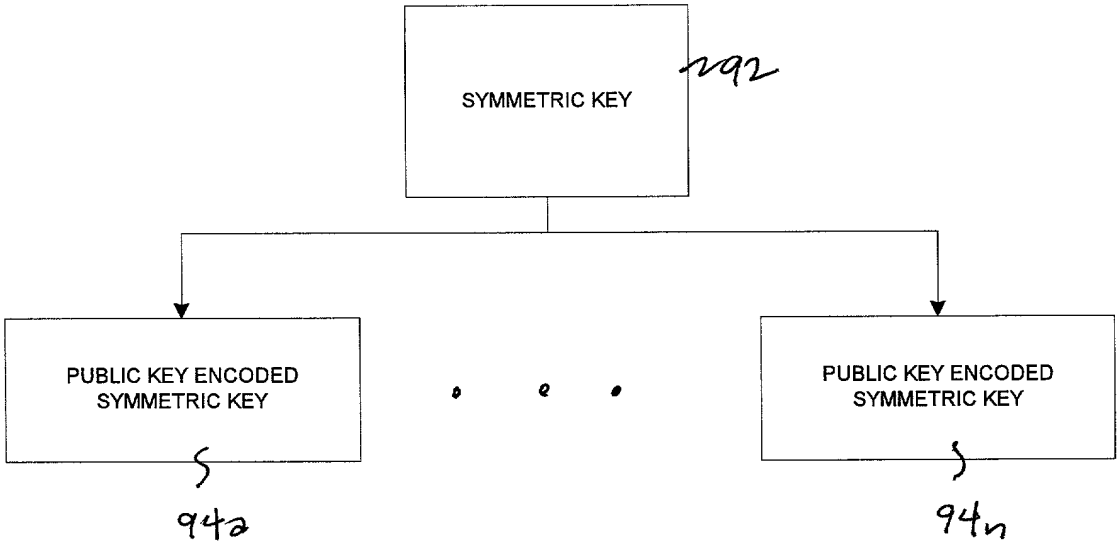

Figure 6

Docket No. AUS920010391US1

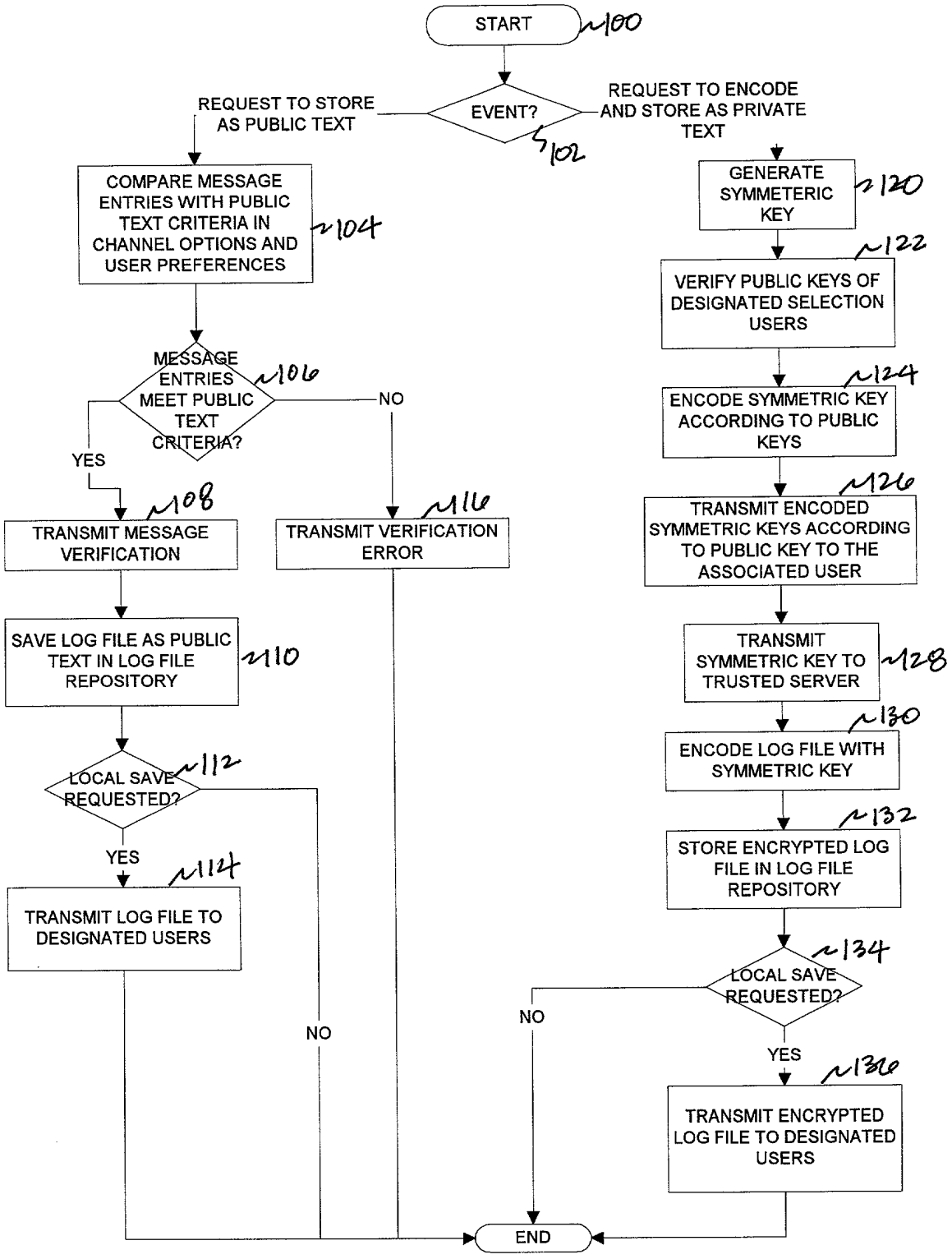
START
100
EVENT?
102
REQUEST TO STORE AS PUBLIC TEXT
REQUEST TO ENCODE AND STORE AS PRIVATE TEXT
COMPARE MESSAGE ENTRIES WITH PUBLIC TEXT CRITERIA IN CHANNEL OPTIONS AND USER PREFERENCES
104
MESSAGE ENTRIES MEET PUBLIC TEXT CRITERIA?
106
YES
NO
TRANSMIT MESSAGE VERIFICATION
108
TRANSMIT VERIFICATION ERROR
116
SAVE LOG FILE AS PUBLIC TEXT IN LOG FILE REPOSITORY
110
LOCAL SAVE REQUESTED?
112
YES
NO
TRANSMIT LOG FILE TO DESIGNATED USERS
114
GENERATE SYMMETERIC KEY
120
VERIFY PUBLIC KEYS OF DESIGNATED SELECTION USERS
122
ENCODE SYMMETRIC KEY ACCORDING TO PUBLIC KEYS
124
TRANSMIT ENCODED SYMMETRIC KEYS ACCORDING TO PUBLIC KEY TO THE ASSOCIATED USER
126
TRANSMIT SYMMETRIC KEY TO TRUSTED SERVER
128
ENCODE LOG FILE WITH SYMMETRIC KEY
130
STORE ENCRYPTED LOG FILE IN LOG FILE REPOSITORY
132
LOCAL SAVE REQUESTED?
134
NO
YES
TRANSMIT ENCRYPTED LOG FILE TO DESIGNATED USERS
136
END

Figure 7

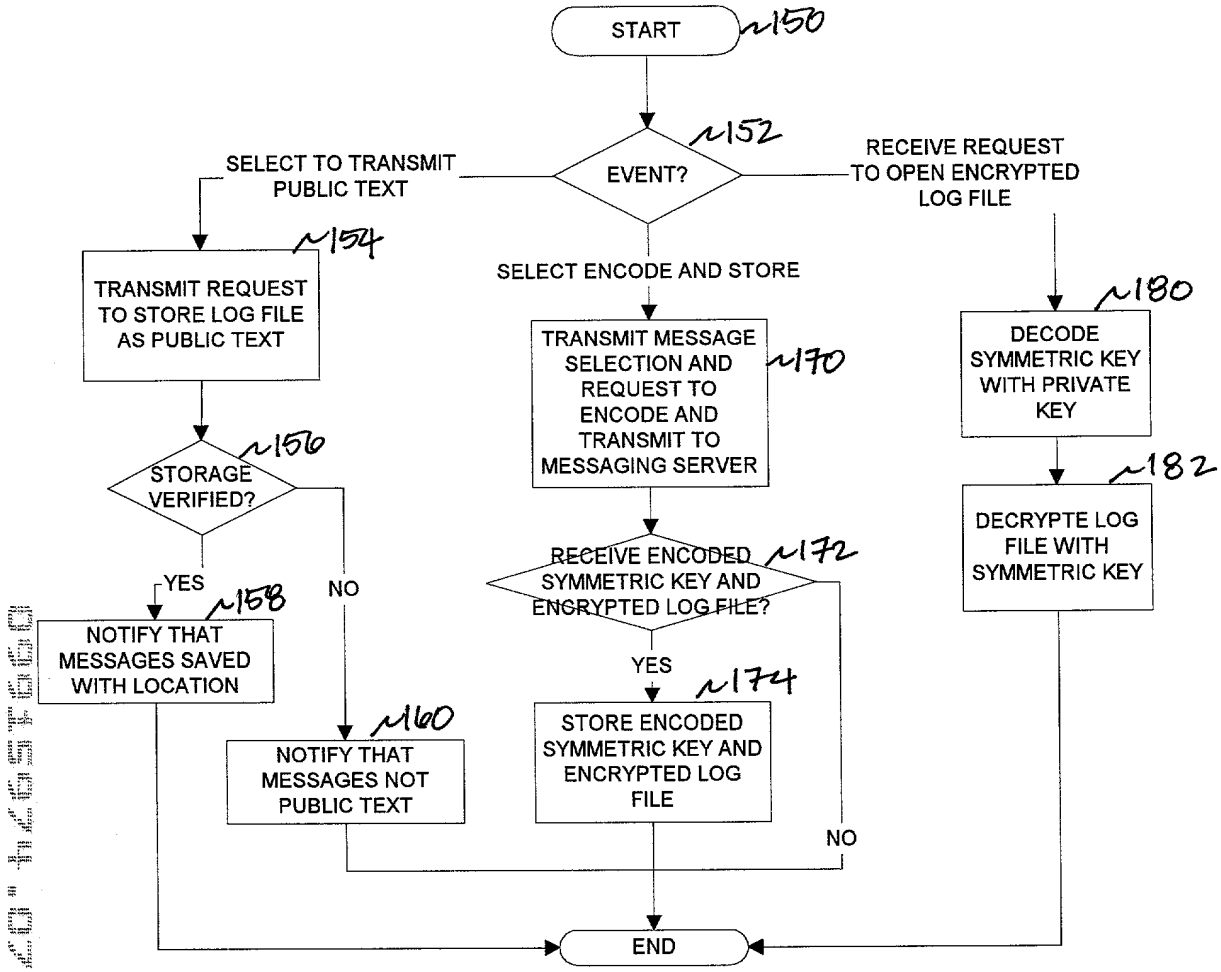
START
150
EVENT?
152
SELECT TO TRANSMIT PUBLIC TEXT
RECEIVE REQUEST TO OPEN ENCRYPTED LOG FILE
SELECT ENCODE AND STORE
TRANSMIT REQUEST TO STORE LOG FILE AS PUBLIC TEXT
154
TRANSMIT MESSAGE SELECTION AND REQUEST TO ENCODE AND TRANSMIT TO MESSAGING SERVER
170
DECODE SYMMETRIC KEY WITH PRIVATE KEY
180
STORAGE VERIFIED?
156
YES
NO
NOTIFY THAT MESSAGES SAVED WITH LOCATION
158
NOTIFY THAT MESSAGES NOT PUBLIC TEXT
160
RECEIVE ENCODED SYMMETRIC KEY AND ENCRYPTED LOG FILE?
172
YES
NO
STORE ENCODED SYMMETRIC KEY AND ENCRYPTED LOG FILE
174
DECRYPTE LOG FILE WITH SYMMETRIC KEY
182
END

FIGURE 8